SONY VAIO

VGN-C190 CTO Series

VAIO® C Series Notebook PC

Express your inner VAIO®

GET MOVING. GET NOTICED.

With its cool colors and trendy design, the VAIO® C Notebook is just too pretty to leave at home. The The VAIO® C Series Notebook weighs in at just 5.07 lbs with the standard battery[12] .

MORE THAN JUST GOOD LOOKS.

In addition to its eye-catching design, the VAIO® C Notebook also has the heart of a champion. Backed by an optional Intel® Core™ 2 Duo processor,optional DVD burner[4] and energy-saving 13.3" widescreen[11] LCD display with XBRITE-ECO™ technology, this beautiful and powerful notebook has the latest and greatest technologies to get you through the day.

FREEDOM AND FLEXIBILITY.

Send e-mail from the sofa, share photos while lounging by the pool, or chat with friends for hours from the café, campus or airport. The VAIO® C Notebook's integrated wireless LAN capability[3] and extended battery life keeps you connected longer at hotspots and wireless networks at coffee shops, airports, work, school or home.

SPECTACULAR WIDESCREEN LCD.

Enjoy videos and photos with brilliant colors and stunning clarity while conserving valuable power. Engineered for a fantastic viewing experience, the VAIO® C Notebook features an exceptional 13.3" widescreen display[11] with Sony's original energy-saving XBRITE-ECO™ LCD technology. An anti-reflective coating on the LCD also minimizes reflection and ensures a beautifully clear image from almost any viewing angle.

Celebrate your style with the sleek form, trendy trim and dimpled surface of the portable, powerful and exquisitely designed VAIO® C Notebook. In addition to its optional Intel® Centrino® Duo mobile technology, optional CD/DVD[4] burner and light weight, it features a 13.3" widescreen display[11] with energy-saving XBRITE-ECO™ technology. The VAIO® C Series Notebook is a "Windows Vista™ Premium Ready[5] " PC.

like.no.other™

Intel Centrino Duo Core 2 Duo inside

Windows XP Media Center Edition

Windows XP Professional

Designed for Windows® XP Windows Vista™ Capable

Windows Vista™ Premium Ready

Bluetooth

XBRITE-ECO™

VGN-C190 CTO Series

VAIO® C Series Notebook PC

Specifications

General

Computer Type: Notebook

Type of Use: Ultra-Portable

Pointing Device: Electro-Static touch pad

Hardware

Keyboard: QWERTY, 86 keys with 2.5mm stroke and 19.05mm pitch

Processor

Type: Intel® Core™ 2 Duo Processor T7600 (Configuration 1)
Intel® Core™ 2 Duo Processor T7400 (Configuration 2)
Intel® Core™ 2 Duo Processor T7200 (Configuration 3)
Intel® Core™ 2 Duo Processor T5600 (Configuration 4)
Intel® Core™ 2 Duo Processor T5500 (Configuration 5)
or Intel® or Celeron® Processor 430(Configuration 6)

Speed: 2.33GHz[1] (Configuration 1), 2.16GHz[1] (Configuration 2), 2GHz[1] (Configuration 3), 1.83GHz[1] (Configuration 4), 1.66GHz[1] (Configuration 5), or 1.73GHz[1] (Configuration 6)

Front Side Bus Speed: 667MHz (for Configurations 1-5)
533MHz (for Configuration 6)

L2 Cache: 4MB (for Configurations 1-3)
2MB (for Configurations 4-5)
1MB (for Configuration 6)

Memory

Type: DDR2

Installed: 2GB (PC2-4200 1GB x 2), 1GB (PC2-4200 1GB x 1), 1GB (PC2-4200 512MB x 2), or 512MB (PC2-4200 512MB x 1)

Maximum: 2GB

Speed: 533MHz

Hard Drive

Capacity: 120GB[2], 100GB[2], 80GB[2], 60GB[2], 40GB[2]

Speed: 5400rpm

Interface: Serial ATA

Optical Drive #1

DVD+R DL Write: 4x max. (DVD±R DL/DVD±RW)

DVD+R Write: 8x max. (DVD±R DL/DVD±RW)

DVD+RW Write: 8x max. (DVD±R DL/DVD±RW)

DVD-R Write: 8x max. (DVD±R DL/DVD±RW)

DVD-RW Write: 6x max. (DVD±R DL/DVD±RW)

CD-R Write: 24x max. (DVD±R DL/DVD±RW)
24x max. (CD-RW/DVD-ROM)

CD-RW Write: 24x max. (DVD±R DL/DVD±RW)
24x max. (CD-RW/DVD-ROM)

DVD±RW: Yes[4] (DVD±R DL/DVD±RW/DVD-RAM drive)

CD Read: 24x max. (DVD±R DL/DVD±RW)
24x max. (CD-RW/DVD-ROM)

DVD Read: 8x max. (DVD±R DL/DVD±RW)
8x max. (CD-RW/DVD-ROM)

DVD-RAM Write: 5x max (DVD±R DL/DVD±RW)

DVD-R DL Write: 4x max. (DVD±R DL/DVD±RW)

DVD-RAM Read: 5x max (DVD±R DL/DVD±RW)

Expansion Slots

Multimedia Card Reader: Multimedia Card Reader[15] Supports Memory Stick Duo™ media with MagicGate® functionality.
One ExpressCard™ /34 Slot: 5-in-1 Memory Card Adaptor (VGP-MCA20) supporting Memory Stick®, Memory Stick PRO™, Secure Digital, xD-Picture Card, and MultiMediaCard (MMC)

Audio

Sound System: Windows® sound system compatible

Display

Screen Size: 13.3"[11]

Resolution: 1280 x 800

XBRITE-ECO™ Technology: Yes

Technology: WXGA LCD

Graphics

Processor: Intel® Graphics Media Accelerator 950

Video RAM: 128MB Dynamically Allocated Shared (RAM/Video) Memory

Chipset: Intel® 945GM

Interface: VGA Out with Smart Display Sensor

Inputs and Outputs

Ethernet Port: 1

Headphone Jack: 1

i.LINK® Interface: 1(4-pin) interface[6]

Memory Stick® Media Slot: 1

Modem Jack: 1

Microphone Input: 1

Port Replicator Connector(s): 1

S-Video Output(s): 1

USB Port(s): 2 (2.0 compliant)

VGA Output(s): 1

DC-In: 1

Express Card™ Slot: /34 x 1

Networking/Modem

Ethernet Protocol: Fast Ethernet (RJ-45)

Ethernet Speed: 10Base-T/100Base-TX

Modem Type: Integrated V92/V.90 Modem (RJ-11)

Wireless LAN: Intel® PRO/Wireless 3945ABG Network Connection (802.11a/b/g)[3]

Bluetooth® Technology: Integrated Bluetooth® Technology[13]

Power

Battery Type: Lithium-ion Battery (VGP-BPS2C), (VGP-BPS2C/S for Seashell White models)

Estimated Battery Life: 3.0-4.5 hours[7] (Standard Battery)

Power Requirements: 110W+10%

Software

Operating System: Windows® XP Media Center Edition 2005[14] or Microsoft® Windows® XP Professional (Service Pack 2)

Internet Services: America Online® 180-Day Trial - New Users Only

Supplied Software: Microsoft® Works 8.5
60-Day Trial Version of Microsoft® Office 2003[10]

Sony® Original Software: Click to DVD® - DVD Creation
DVgate Plus™ - Digital Video
Trial Versions of Sony popular games
*For a complete list of software applications and trials, please visit VAIO® Support Central

Security and Anti-Virus Software: Norton® Internet Security™ 60-Day Trial
TrendMicro™ Anti-Spyware 30-Day Trial

Service and Warranty Information

Limited Warranty: 1 Year Limited Warranty [8]

Telephone Support: 1 year toll-free technical telephone assistance, available 24/7[9]

Online and Email Support: Support available from http://www.esupport.sony.com/EN/VAIO

Dimensions

Weight: 5.07 lbs with standard battery (weight is approximate and may vary)

Measurements: 12.98"(W) x 1.45"-1.47"(H) x 9.28"(D)[12]

Supplied Accessories

Standard Lithium-ion battery (VGP-BPS2C), (VGP-BPS2C/S for Seashell White models)

AC adapter (VGP-AC19V13)

Memory Card Adapter (VGP-MCA20)

Power Cord

Optional Accessories

Port Replicator(VGP-PRC1)

Additional Standard Capacity Battery (VGP-BPS2C), (VGP-BPS2C/S for Seashell White models)

Large Capacity Battery (VGP-BPL2C)

AC Adapter (VGP-AC19V10)

Battery Charger (VGP-BC1)

Neoprene Notebook & AC Adapter Case (VGP-AMC1)

Protection Case (VGP-CKSZ1)

USB Communication Camera (VGP-UVC100)

Wireless Presentation Mouse (VGP-WMS50)

Mouse Talk™ Internet Phone and Mouse (VN-CX1 Series)

Color: Blush Pink, Espresso Black, Seashell Silver, Spring Green, Urban Gray

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Requires 802.11b or 802.11g compatible access point. Some functionality may require Internet services, which may require a fee.
4. DVD Media/Formats are not universally compatible.
5. Not all Windows Vista features are available for use on all Windows Vista Capable PCs. All Windows Vista Capable PCs will run the core experiences of Windows Vista, such as innovations in organizing and finding information, security, and reliability. Some features available in premium editions of Windows Vista –like the new Windows Aero™ user interface – require advanced or additional hardware. Check www.windowsvista.com/getready for details.
6. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
7. Actual battery life may vary based on product settings, usage patterns, battery and environmental conditions.
8. See actual limited warranty for details. For a copy of Sony's warranty, please visit www.sony.com/pcsupport, call toll-free 888-476-6972 (888-4SONYPC), or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.
9. For certain third party software applications, Sony provides first level Phone Support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the applicable software vendor.
10. The Microsoft Office 2003 60-Day Trial software is intended for evaluation purposes only. This trial software is installed on your system and you must activate the software before you can use it. Product activation procedures will be detailed during initial launch of the software; activation requires Internet access. This software has an expiration date of 60 days from date of first use, at which time the software will operate under reduced-functionality mode, limiting end-use options and operations.
11. Viewable area measured diagonally.
12. Non-metric weights and measures are approximate and may vary.
13. Interoperability among Bluetooth devices varies.
14. Microsoft Windows® XP MCE 2005 available only on models VGN-C140G/B and the VGN-C190 series. No TV tuner is included in these models. Certain features of Windows XP MCE 2005 that require a TV tuner will not be available. Other models are pre-loaded with Windows XP Professional.
15. Does not support Memory Stick media and Memory Stick PRO™ media using the MagicGate® function or high-speed data transfer. Supports memory cards with capacitities up to 1GB. Does not support 5.0V SmartMedia media or the ID function of SmartMedia media with IDs. Does not support the SD Memory Card media copyright protection function. This adapter has been tested with only Sony® branded Memory Stick PRO™ media. Sony® branded Memory Stick PRO™ media is recommended for use with this adapter.

Computer Interface: The computer industry lacks standards, and therefore, there are a multitude of varying software packages and add-on hardware options. This personal computer is not manufactured to operate any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware options except those mentioned in this document. Sony hereby disclaims any representations or warranty that this product is compatible with any combination of products you may choose to connect. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony Notebook Computer are subject to change without notice. Simulated graphic shown on display. Pre-installed software may not be identical to retail versions or have all documentation. This product meets the standards of the International Energy Star Program for energy efficiency. Features and specifications are subject to change without notice. Non-metric weights and measurements are approximate.

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